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ABSTRACT OF THE DISCLOSURE

Press device and method of using the same for treating a fibrous material web that includes a shoe press unit that includes a flexible press belt that revolves around a non-rotating carrier, a counter roll that includes a deflection compensation roll with a roll jacket revolving around a second non-rotating carrier, a third roll, a roll nip formed between the counter roll and the third roll, a press nip elongated in a web travel direction and formed between the shoe press unit and the counter roll, at least one first support element where the flexible press belt is supported on the non-rotating carrier by the at least one first support element in the region of the elongated press nip, at least one second support element where the roll jacket is supported on the second non-rotating carrier by the at least one second support element in the region of the elongated press nip. A changeable pressure differential occurs between internal pressures generated by the at least one first support element acting on the flexible press belt of the shoe press unit, and the at least one second support element acting on the roll jacket of the counter roll.